



PATENT

**EXHIBIT A**

1.       Serial No:                               08/340,667  
          Filing Date:                         11/16/94  
          Patent No.:                         6,002,411  
          Issue Date:                         12/14/99  
          Title:                                INTEGRATED VIDEO AND MEMORY  
  CONTROLLER WITH DATA PROCESSING  
  AND GRAPHICAL PROCESSING  
  CAPABILITIES  
  
          Assignment Reel/Frame:           9275/0387  
          Our File No.:                      40532-P001X1  
          Former File No.:                   5143-00101

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2.       Serial No:                               09/241,139  
          Filing Date:                         2/1/99  
          Patent No.:                         6,370,631  
          Issue Date:                         4/9/02  
          Title:                                MEMORY CONTROLLER INCLUDING  
  EMBEDDED COMPRESSION /  
  DECOMPRESSION CAPABILITIES FOR  
  IMPROVED DATA ACCESS BETWEEN NON-  
  VOLATILE AND SYSTEM MEMORY  
  
          Assignment Reel/Frame:           9758/0602  
          Our File No.:                      40532-P001D2  
          Former File No.:                   5143-00202

3.      Serial No:                      09/461,172  
        Filing Date:                  12/14/99  
        Patent No.:                  6,170,047  
        Issue Date:                  1/2/01  
        Title:                          SYSTEM AND METHOD FOR MANAGING  
   SYSTEM MEMORY AND/OR NON-  
   VOLATILE MEMORY USING A MEMORY  
   CONTROLLER WITH INTEGRATED  
   COMPRESSION AND DECOMPRESSION  
   CAPABILITIES  
  
        Our File No.:                  40532-P001D3  
        Former File No.:              5143-00203

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4.      Serial No:                      08/916,464  
        Filing Date:                  8/8/97  
        Patent No.:                  6,173,381  
        Issue Date:                  1/9/01  
        Title:                          MEMORY CONTROLLER INCLUDING  
   EMBEDDED DATA COMPRESSION AND  
   DECOMPRESSION ENGINES  
  
        Our File No.:                  40532-P001D1X2  
        Former File No.:              5143-00204

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5.      Serial No:                      08/565,103  
        Filing Date:                   11/30/95  
        Patent No.:                   5,838,334  
        Issue Date:                    11/17/98  
        Title:                            MEMORY AND GRAPHICS CONTROLLER  
   WHICH PERFORMS POINTER-BASED  
   DISPLAY LIST VIDEO REFRESH  
   OPERATIONS  
  
        Assignment Reel/Frame:       9275/0371  
        Our File No.:                   40532-P001P1C1  
        Former File No.:                5143-00301
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6.      Serial No:                      08/604,670  
        Filing Date:                   2/21/96  
        Patent No.:                   5,995,120  
        Issue Date:                    11/30/99  
        Title:                            GRAPHICS SYSTEM INCLUDING A  
   VIRTUAL FRAME BUFFER WHICH STORES  
   VIDEO/PIXEL DATA IN A PLURALITY OF  
   MEMORY AREAS  
  
        Our File No.:                   40532-P001M1X1  
        Former File No.:                5143-00304
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7.      Serial No:                      08/770,017  
         Filing Date:                  12/19/96  
         Patent No.:                  6,108,014  
         Issue Date:                  8/22/00  
         Title:                          SYSTEM AND METHOD FOR  
   SIMULTANEOUSLY DISPLAYING A  
   PLURALITY OF VIDEO DATA OBJECTS  
   HAVING DIFFERENT BIT PER PIXEL  
   FORMATS  
  
         Our File No.:                  40532-P001M2X1  
         Former File No.:              5143-00305
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8.      Serial No:                      09/971,107  
         Filing Date:                  10/4/01  
         Patent No.:                  6,518,965 B2  
         Issue Date:                  2/11/03  
         Title:                          GRAPHICS SYSTEM AND METHOD FOR  
   RENDERING INDEPENDENT 2D AND 3D  
   OBJECTS USING POINTER BASED DISPLAY  
   LIST VIDEO REFRESH OPERATIONS  
  
         Assignment Reel/Frame:      012505/0682  
         Our File No.:                  40532-P021C1  
         Former File No.:              5143-01103
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| 9. | Serial No:             | 09/056,021   |
|    | Filing Date:           | 4/6/98   |
|    | Patent No.:            | 6,067,098  |
|    | Issue Date:            | 5/23/00  |
|    | Title:                 | VIDEO/GRAPHICS CONTROLLER WHICH PERFORMS POINTER-BASED DISPLAY LIST VIDEO REFRESH OPERATIONS |
|    | Assignment Reel/Frame: | 9274/0804  |
|    | Our File No.:          | 40532-P001M3P1   |
|    | Former File No.:       | 5143-01200   |
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|-----|------------------------|---|
| 10. | Serial No:             | 10/085,274                                  |
|     | Filing Date:           | 2/28/02                                     |
|     | Title:                 | VIDEO CONTROLLER SYSTEM WITH SCREEN CACHING |
|     | Assignment Reel/Frame: | 012663/0652                                 |
|     | Our File No.:          | 40532-P003C1                                |
|     | Former File No.:       | 5143-01501                                  |
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| 11. | Serial No:             | 09/239,659   |
|     | Filing Date:           | 1/29/99  |
|     | Title:                 | BANDWIDTH REDUCING MEMORY CONTROLLER INCLUDING SCALABLE EMBEDDED PARALLEL DATA COMPRESSION AND DECOMPRESSION ENGINES   |
|     |                        | <b>***Response to Office Action submitted on 8/5/02 requested title change to: SELECTIVE LOSSLESS, LOSSY, OR NO COMPRESSION OF DATA BASED ON ADDRESS RANGE, DATA TYPE, AND/OR REQUESTING AGENT</b> |
|     | Assignment Reel/Frame: | 9742/0780  |
|     | Our File No.:          | 40532-P001M4P1   |
|     | Former File No.:       | 5143-01700   |
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| 12. | Serial No:             | 09/421,968   |
|     | Filing Date:           | 10/20/99   |
|     | Patent No.:            | 6,208,273  |
|     | Issue Date:            | 3/27/01  |
|     | Title:                 | SYSTEM AND METHOD FOR PERFORMING<br>SCALABLE EMBEDDED PARALLEL DATA<br>COMPRESSION |
|     | Assignment Reel/Frame: | 010338/0552  |
|     | Our File No.:          | 40532-P001M5P2   |
|     | Former File No.:       | 5143-01701   |
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| 13. | Serial No:             | 09/491,343   |
|     | Filing Date:           | 1/26/00  |
|     | Title:                 | SYSTEM AND METHOD FOR PERFORMING<br>SCALABLE EMBEDDED PARALLEL DATA<br>DECOMPRESSION |
|     | Assignment Reel/Frame: | 010529/0576  |
|     | Our File No.:          | 40532-P001M6D1   |
|     | Former File No.:       | 5143-01702   |
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| 14. | Serial No:             | 09/818,283   |
|     | Filing Date:           | 3/27/01  |
|     | Title:                 | SYSTEM AND METHOD FOR PERFORMING<br>SCALABLE EMBEDDED PARALLEL DATA<br>COMPRESSION |
|     | Assignment Reel/Frame: | 011940/0856  |
|     | Our File No.:          | 40532-P001M7P2   |
|     | Former File No.:       | 5143-01704   |
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| 18. | Serial No:             | 09/550,380   |
|     | Filing Date:           | 4/14/00  |
|     | Patent No.:            | 6,523,102 B1   |
|     | Issue Date:            | 2/18/03  |
|     | Title:                 | PARALLEL COMPRESSION /<br>DECOMPRESSION SYSTEM AND METHOD<br>FOR IMPLEMENTATION OF IN-MEMORY<br>COMPRESSED CACHE IMPROVING<br>STORAGE DENSITY AND ACCESS SPEED<br>FOR INDUSTRY STANDARD MEMORY<br>SUBSYSTEMS AND IN-LINE MEMORY<br>MODULES |
|     | Assignment Reel/Frame: | 010730/0424  |
|     | Our File No.:          | 40532-P007US   |
|     | Former File No.:       | 5143-02000   |
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| 19. | Serial No:             | 09/840,724   |
|     | Filing Date:           | 4/23/01  |
|     | Title:                 | SYSTEM AND METHOD FOR RECOGNIZING<br>AND CONFIGURING DEVICES EMBEDDED<br>ON MEMORY MODULES |
|     | Assignment Reel/Frame: | 011755/0793  |
|     | Our File No.:          | 40532-P008US   |
|     | Former File No.:       | 5143-02400   |
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| 20. | Serial No:             | 09/915,751  |
|     | Filing Date:           | 7/26/01   |
|     | Title:                 | SYSTEM AND METHOD FOR MANAGING<br>COMPRESSION AND DECOMPRESSION OF<br>SYSTEM MEMORY IN A COMPUTER<br>SYSTEM |
|     | Assignment Reel/Frame: | 012493/0726   |
|     | Our File No.:          | 40532-P009US  |
|     | Former File No.:       | 5143-02501  |
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24.	Serial No:	10/227,607
	Filing Date:	8/23/02
	Title:	MANAGING A CODEC ENGINE FOR MEMORY COMPRESSION / DECOMPRESSION OPERATIONS USING A DATA MOVEMENT ENGINE
	Our File No.:	40532-P014US
	Former File No.:	5143-03601

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